

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 14.04.2005

Version: 1.1

Product: **POLYSTYROL 168 N GR 21 CRYSTAL CLEAR 00013**

(30035470/SDS_GEN_EU/EN)

Date of print 23.06.2005

1. Substance/preparation and company identification

POLYSTYROL 168 N GR 21 CRYSTAL CLEAR 00013

Use: Polymer

Company:

BASF Aktiengesellschaft

Styrenic Polymers Europe

67056 Ludwigshafen, Germany

Telephone: 0621-60-97743

Telefax number: 0621-60-94814

E-mail address: michael.01.kaiser@basf-ag.de

Emergency information:

Fire brigade BASF Ludwigshafen

Telephone: +49-621-60-43333

Telefax number: +49-621-60-92664

2. Composition/information on ingredients

Chemical nature

polystyrene

CAS Number: 9003-53-6

EC-Number: 500-008-9

3. Hazard identification

Danger of burns while handling the hot product.

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4. First-aid measures

If inhaled:

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

On skin contact:

Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment.

On contact with eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek immediate medical attention.

On ingestion:

Rinse mouth and then drink plenty of water. If difficulties occur: Seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Specific hazards:

carbon dioxide, carbon monoxide

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid inhalation. Sources of ignition should be kept well clear.

Methods for cleaning up or taking up:

Sweep/shovel up. Avoid raising dust. Ensure adequate ventilation.

Additional information: High risk of slipping due to leakage/spillage of product.

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7. Handling and storage

Handling

Processing machines must be fitted with local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Provide exhaust ventilation. When the product is ground (chopped), dust explosion regulations should be noted.

Storage

Further information on storage conditions: Protect against moisture. Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure controls and personal protection

Components with workplace control parameters

Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

| 100-42-5: styrene

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter Type P1 or FFP1 (low efficiency for solid particles e.g. EN143, 149).

Hand protection:

Use additional heat protection gloves when handling hot molten masses (e.g. of textile or leather).

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

General safety and hygiene measures:

Avoid contact of molten material with skin. Avoid inhalation of dusts/mists/vapours. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	granules
Colour:	colourless, clear

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Odour:	faint specific odour	
softening temperature:	> 70 °C	(DIN/EN/ISO 306)
Ignition temperature:	> 400 °C	(DIN 51794)
Fire promoting properties:	not fire-propagating	
Density:	approx. 1.05 g/cm ³ (20 °C)	(DIN 53479)
Bulk density:	approx. 600 kg/m ³ (20 °C, 1 bar)	(DIN 53466)
Solubility in water:	insoluble	

10. Stability and reactivity

Conditions to avoid:

Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

Thermal decomposition:	approx. 300 °C To avoid thermal decomposition, do not overheat.
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Substances to avoid:
strong oxidizing agentsHazardous reactions:
The product is chemically stable.Hazardous decomposition products:
monomers, oxides, gases/vapours, hydrocarbons, cyclic low molecular weight oligomers, Gaseous products of degradation can be given off if the product is greatly overheated.

11. Toxicological information

Additional information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12. Ecological information

Persistence and degradability

Assessment:	No data available concerning biodegradation and elimination.
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Bioaccumulation potential

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The product will not be readily bioavailable due to its consistency and insolubility in water..

Additional information

Other ecotoxicological advice:

No data can be given due to the product's insolubility in water

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be recycled.

14. Transport information

| Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other information

In addition to the information given in the safety data sheet we refer to the product specific 'Technical Information'.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.